



hf Happenings 869

Volume 19, Issue 26, the week of 14 October 2019

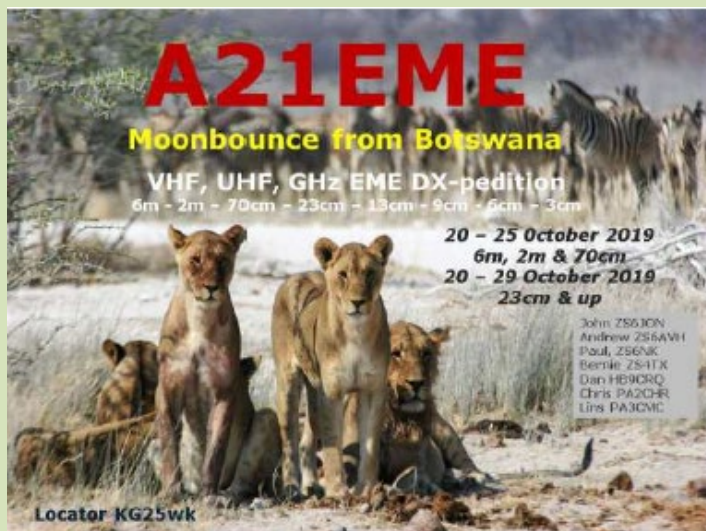
HF Happenings from www.sarl.org.za/hf_happenings.asp

Southern African Fauna and Flora <https://zsfaunaandflora.wordpress.com/>

Zone 38 Award and others <https://zone38award.wordpress.com/>

Worldwide List of HF Beacons <https://iaruhfbacons.wordpress.com/>

5 MHz (60 metre) allocations <http://www.sarl.org.za/public/contests/contestrules.asp>



EME DXpedition to Botswana, A2

Lins, PA3CMC, John, ZS6JON, Chris, PA2CHR, Paul, ZS6NK, Andrew, ZS6AVH, Bernie, ZS4TX and Dan, HB9CRQ operate from Botswana with the call sign A21EME. From 20 to 25 October they will concentrate on 6 and 2 m and 70 cm EME (JT65, CW) and from the 20 to 29 October also on 23, 13, 9, 6, and 3 cm (JT65, CW). QSL for 6 m, 2 m, 70 cm, and QO-100 via PA3CMC; 23 cm to 3 cm via HB9Q.

Would the communication by the Apollo Moon landings qualify as Moon-Earth-Moon operations?

Homebrew Heroes

Hans, G0UPL, of QRP-Labs and QCX fame, is the inaugural Homebrew Heroes Award winner <http://homebrewheroes.org/>. According to the Homebrew Heroes website, "The Homebrew Heroes Award is a program promoted by the ICQ Podcast to recognize persons, groups, or organizations who help define the frontiers in amateur radio technology through the long-standing tradition of 'home brew' construction." The announcement video is on YouTube www.youtube.com/watch?v=9i9Z5Ww5rQE (and you thought it was your neighbour making craft beer!)

WWROF webinars

October

14 October 1947 - USAF Captain Chuck Yeager became the first man to break the sound barrier.
16 – World Food Day
16 October 1978 - Cardinal Karol Wojtyla of Poland was elected Pope - John Paul II, the first non-Italian Pope chosen in 456 years
18 to 20 – **Jamboree on the Air**; Herman Charles Bosman Weekend in Groot Marico
19 – **RAE and CQ Hou Koers**
19 and 20 – **Worked all Germany contest**; Talana Life at Dundee
21 – **the closing date for QRP and the AWA Valve QSO Party logs**
24 – United Nations Day (1945) and **the closing date for the November Radio ZS**
26 and 27 – **CQ WW DX SSB Contest**; the International Kite Festival in Cape Town
27 - **PEARS HF contest**; Deepavali
31 – World Cities Day
21 October 1805 - The Battle of Trafalgar
21 October 1879 - Thomas Edison successfully tested an electric incandescent lamp with a carbonized filament at his laboratory, keeping it lit for over 13 hours.
21 October 1915 - The first transatlantic radio voice message was made by the American Telephone and Telegraph Company from Virginia to Paris.
23 October 1942 - British General Bernard Montgomery launched a major offensive against German forces under Erwin Rommel at El Alamein, Egypt.
23 October 1956 - Hungarian uprising against Communist rule
24 October 1929 - "Black Thursday" occurred in the New York Stock Exchange
25 October 1854 - During the Crimean War, the Charge of the Light Brigade occurred as Lord Cardigan led the British cavalry against the Russians at Balaclava. Of 673 British cavalrymen taking part in the charge, 272 were killed. The Charge was later immortalized in the poem by Alfred Lord Tennyson.

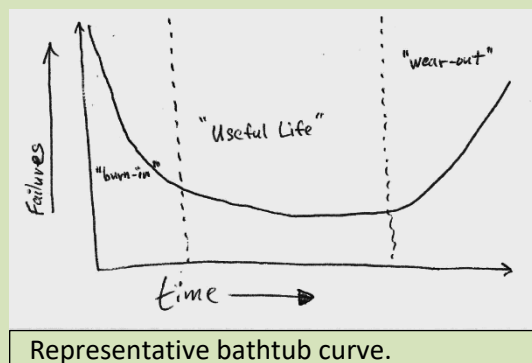
The Worldwide Radio Operator Foundation (WWROF <http://wwrof.org/>) sponsored a webinar entitled "CQ WW SSB and CW - Current News on Your Favourite Contests" last weekend. If you missed it, it may appear in the webinars area of the WWROF website <https://wwrof.org/webinars/>. Future webinars include "Contest Q&A - Your Chance to Ask Anything" with Randy, K5ZD, Presenter, at 01:00 UTC on 13 November 2019. *(My question as well, why 03:00 CAT in the morning?)*

Word to the Wise

Bathtub Curve. The bathtub curve is a graph having a "U" shape that describes many phenomena that start out with a high number of observations that exponentially decay to a relative constant number before again exponentially increasing https://en.wikipedia.org/wiki/Bathtub_curve.

Electronic component reliability exhibits this characteristic, with a high number of initial failures followed by a period of relative constant rate of failures, concluded with a period during which components "wear out" at an accelerating rate. Burn-in can detect and mitigate early failures, while scheduled retirement can replace equipment before wear-out failure.

(No Frikkie, your wife is referring to a bathtub ring – when you get out of the tub after washing yourself!)



Engineering Mathematics

Last week I (Brian, N9ADG) had coffee with Mike, N6MZ and as is often the case, we ended up talking about DXing and engineering math, specifically LaPlace transforms. Okay, in reality we never talk about engineering math, except we had a reason to last week: Math was in the news! It turns out that for the past 50 years or so, we (the collective we) have had a tool in our math toolbox called the chirp z-transform (CZT), which is a faster way to do Fast Fourier Transforms (FFTs) for certain signals. FFTs are a way to do Discrete Fourier Transforms (DFTs), well, more quickly. The Fourier Transform is used to map signals from the frequency domain to the time domain, or vice versa. FFTs are used in most modern communication gear and is a big reason why we have nice-looking spectrum displays.

Nobody knew how to do an *inverse* CZT until early in October 2019 when Vladimir Sukhoy and Alexander Stoytchev of Iowa State University published a paper describing an algorithm for it <https://techxplore.com/news/2019-10-year-old-puzzle.html>. For the two researchers, the motivation to do this work was the lack of a discussion of the inverse function in the literature. Stoytchev, "Is that because they couldn't explain it, or is it because it doesn't exist? It turned out it didn't exist."

W7IUV 160 metre preamp

With low-band season about to crackle and sizzle, there's more interest in receiving gear like preamps and receiver protectors. The W7IUV 160 metre preamp design using a single 2N5109 (described on this page by AC0C https://ac0c.com/main/page_homebrew_preamps.html) is well-regarded and is now available in kit form from remoteqth.com <https://remoteqth.com/preampmodule.php>.

African DX

Contacts with stations on the African continent count towards the SARL's All Africa Award (www.sarl.org.za/public/awards/awards.asp)

Zambia, 9J. Mario, IK1MYT is active as 9J2MYT from Lusaka until June 2020. Activity is on 40, 20, 15 and 10 meters. QSL to home call.



Mauritania, 5T. DX-World.net reports that operators Johannes, PA5X - 5T5PA and Evert, PA2KW - 5T2KW will be active from a special location somewhere in Mauritania between the evening of 19 October until the morning of 26 October. Their main focus will be on Low Bands (160, 80, 60 and 40 m). Johannes will be mostly active on SSB and some FT8. Evert will concentrate on CW. They will set up separate verticals for 160/80 m and a delta-loops for 60/40 metres. Receiving antennas = 3 beverages (direction JA/EU, NA, SA/VK/ZL). There will be a daily upload to ClubLog for both stations. LoTW will be uploaded after the DXpedition. QSL is OQRS via ClubLog.

Ghana, 9G. Matteo, IZ4YGS, is once again active as 9G5GS from Sanzule, West Takoradi (Western Region), Ghana, until 23 October. Activity will be limited to his spare time, usually on "almost every evening", between 21:00 – 00:00 UTC on 160 - 20 metres using mostly FT8 (F/H) and SSB, with a Yaesu FT-891 and 100 watts into a vertical antenna. He mentions on QRZ.com, "Activations cannot be planned because of rainy season's unpredictability." He will update daily to ClubLog. QSL via LoTW, IZ4YGS direct or eQSL.

Added Note: Matteo will return again between November 26th and December 28th; bands and modes identical to the previous ones, the news will be the SSB activity through the Oscar-100 geostationary satellite.

Chad, TT. Nicolas, F8FQX (ex-TJ3SN, TN5SN, 5T5SN, TY2CA), who has been in N'Djamena since 24 August, finally received his TT8SN license on 4 October. However, by the time you read this, Nicolas will be returning to France, but will return on 1 December. He plans to be there for the next 3 - 4 years and will be on various HF bands and 6 metres. QSL via DL9USA and LoTW.

African Islands

IOTA Frequencies

CW: 28 040 24 920 21 040 18 098 14 040 10 114 7 030 3 530 kHz

SSB: 28 560 28 460 24 950 21 260 18 128 14 260 7 055 3 760 kHz

Cape Verde, D4. Jan, OK7JR, is now active as D44EA from Sal Island (AF-086) until 22 October. Some activity will be from the Ponta to Sino Light- house (ARLHS CAP007). Activity will be on various HF bands. QSL via his home call sign, direct, by the Bureau, LoTW or eQSL.



Canary Islands, ED8. Salvador, EA7FQB, Cristobal, EA7RU, Manolo, EA7LL, Anton, EA8DIG, Maria, EA8LF, Manuel, EA8DO, Miroslav, OM5RW and Sigg, TF3CW will be active as ED8W from La Palma Island (AF-004) during the CQ WW DX SSB Contest (26 and 27 October) Multi-? entry. QSL via EA8DO or LoTW.

Mayotte Islands, FH. Willi, DJ7RJ, will once again be active as FH/DJ7RJ from Mayotte between 15 October and 3 November. Activity will be on 160 - 10 metres with a focus on the lower bands using CW and SSB. QSL via his home call sign, direct or by the Bureau. NO LoTW or ClubLog.

Madeira, CT9. Silvia EA1AP, Alberto EA1SA and Tony CT1HTU (F8ATS) will be active as CQ9A from Madeira (AF-014) between 18 and 26 October. They will operate CW, SSB and FT8 on 80 - 6 metres, with "special attention" for 60 m. QSL via Club log's OQRS, LoTW, or via EA1AP.

Operating Tip

Checklog. It could happen to anyone: You enter a contest on a whim, and don't realize that there is no category for the way you operated the contest. For example, you used spotting assistance in the Top Band QSO Party. Or you operated under the assumption of entering the high power category of the SARL QRP Contest. Hint: There's no High Power category in the QRP Contest; 5 W

maximum power for all categories. Or you are 'giving away points!' What to do? Send in a checklog! Why? The contest sponsors will appreciate being able to check all of the stations you worked against your log, even though you won't be eligible for any awards.

Contest Calendar

This week's contests as compiled by Bruce Horn, WA7BNM. The period covered is 14 to 21 October 2019

4 States QRP Group Second Sunday Sprint

00:00 - 02:00 UTC 14 October

Geographic Focus: North America

Participation: Worldwide

Mode: CW, SSB

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op

Exchange: Member: RS(T), state, province or country and member no; Non-member: RS(T), state, province or country and power

Work stations: Once per band

QSO Points: 1 point per QSO with non-member; 2 points per QSO with member

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 16 October 2019

E-mail logs to: (none)

Post log summary at:

<http://qrpcontest.com/4sqrp>

Mail logs to: (none)

Find rules at:

www.4sqrp.com/SSS/sss_rules.pdf

RSGB 80 m Autumn CW Series

19:00 - 20:30 UTC 14 October

Geographic Focus: United Kingdom

Participation: Worldwide

Mode: CW

Bands: 80 m Only

Classes: 100 W; 10 W

Exchange: RST and serial no

QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 23:59 UTC 17 October 2019

Upload log at: www.rsgbcc.org/cgi-bin/hfenter.pl

Mail logs to: (none)

Find rules at:

www.rsgbcc.org/hf/rules/2019/rautumn.shtml

Phone Fray

02:30 - 03:00 UTC 16 October

Geographic Focus: North America

Participation: Worldwide

Mode: SSB

Bands: 160, 80, 40, 20, 15 m

Classes: Single Op

Max power: 100 watts

Exchange: NA: Name and state, province or country; non-NA: Name

Work stations: Once per band

QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station

Multipliers: Each US state (including KH6/KL7) once per band; Each VE province/territory once per band; Each North American country (except W/VE) once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 03:00 UTC 18 October 2019

E-mail logs to: (none)

Post log summary at: www.3830scores.com

Mail logs to: (none)

Find rules at:

www.perluma.com/Phone_Fray_Contest_Rule_s.pdf

CWops Mini-CWT Test

13:00 - 14:00 UTC and 19:00 - 20:00 UTC 16

October and 03:00 - 04:00 UTC 17 October

Geographic Focus: Worldwide

Participation: Worldwide

Awards: Worldwide

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op - QRP, low or high

Max power: HP: >100 watts; LP: 100 watts; QRP: 5 watts

Exchange: Member: Name and member no; non-Member: Name and state, province or country

Work stations: Once per band

QSO Points: 1 point per QSO

Multipliers: Each call once
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 04:00 UTC 19 October 2019
Post log summary at: www.3830scores.com
Mail logs to: (none)
Find rules at: <https://cwops.org/cwops-tests/>

AGCW Semi-Automatic Key Evening
19:00 - 20:30 UTC 17 October
Geographic Focus: Worldwide
Participation: Worldwide
Mode: CW
Bands: 80 m Only
Classes: (none)
Exchange: RST, serial no, "/" and 2-digit year first used a bug
Work stations: Once per band
QSO Points: 1 point per QSO
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: 4 November 2019
E-mail logs to: semiautomatic@agcw.de
Mail logs to: Manager: Volker Enderlein, DJ9BM, Gottfried Keller Str. 7a, D53757 Sankt Augustin, Germany
Find rules at: www.agcw.org/index.php/en/contests-and-cw-activities/semi-automatic-key-evening

NCCC RTTY Sprint
01:45 - 02:15 UTC 18 October
Geographic Focus: North America
Participation: Worldwide
Mode: RTTY
Bands: (see rules)
Classes: (none)
Exchange: Serial no, name and QTH
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 20 October 2019
E-mail logs to: (none)
Post log summary at: www.3830scores.com/
Mail logs to: (none)
Find rules at: www.ncccsprint.com/rttyns.html

NCCC Sprint
02:30 - 03:00 UTC 18 October
Geographic Focus: North America
Participation: Worldwide

Mode: CW
Bands: (see rules)
Classes: (none)
Exchange: Serial no, name and QTH
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 20 October 2019
E-mail logs to: (none)
Post log summary at: www.3830scores.com/
Mail logs to: (none)
Find rules at: www.ncccsprint.com/rules.html

JARTS WW RTTY Contest
00:00 UTC 19 October to 24:00 UTC 20 October
Geographic Focus: Worldwide
Participation: Worldwide
Mode: RTTY
Bands: 80, 40, 20, 15, 10 m
Classes: Single Op All Band - low or high; Multi-Multi
Max power: HP: >100 W; LP: 100 W
Exchange: RST and age of operator
QSO Points: 2 points per QSO with same continent; 3 points per QSO with different continent
Multipliers: Each DXCC entity except JA/W/VE/VK once per band, Each JA/W/VE/VK call area once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 31 October 2019
E-mail logs to: log@jarts.jp
Mail logs to: (none)
Find rules at: <http://jarts.jp/rules2019.html>

10-10 International Fall CW Contest
00:01 UTC 19 October to 23:59 UTC 20 October
Geographic Focus: Worldwide
Participation: Worldwide
Mode: CW
Bands: 10 m Only
Classes: Individual; Club; QRP
Max power: non-QRP: >5 watts; QRP: 5 watts
Exchange: 10-10 Member: Name, 10-10 number and state, province or country; Non-Member: Name, 0 and state, province or country

QSO Points: 1 point per QSO with a non-member; 2 points per QSO with a 10-10 member
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: 28 October 2019
E-mail logs to: tentencontest@ten-ten.org
Upload log at: <http://hamclubs.info/scorer/>
Mail logs to: Dan Morris, KZ3T, 3162 Covington Way, Lenoir, NC 28645, USA
Find rules at: www.ten-ten.org/index.php/activity/2013-07-22-20-26-48/qso-party-rules

New York QSO Party
14:00 UTC 19 October to 02:00 UTC 20 October
Geographic Focus: United States/Canada state/province QSO party
Participation: Worldwide
Mode: CW, SSB, Digital
Bands: All, except WARC
Classes: Single Op - CW, SSB, digital or mixed - QRP, low or high; Multi-Single - QRP, low or high; Multi-Multi - QRP, low or high; School - CW, SSB, digital or mixed - QRP, low or high; Mobile Single-Op - CW, SSB or mixed - low or high; Mobile Multi - CW, SSB or mixed - low or high; Rookie - CW, SSB, digital or mixed - QRP, low or high; Youth (<13/13-17)- CW, SSB, digital or mixed - QRP, low or high; YL - CW, SSB, digital or mixed - QRP, low or high
Max power: HP: >100 watts; LP: 100 watts; QRP: 5 watts
Exchange: NY: RS(T) and county; non-NY: RS(T) and state, province or DX
Work stations: Once per band per mode
QSO Points: 1 point per Phone QSO; 2 points per CW QSO; 3 points per Digital QSO
Multipliers: NY: Each NY county, US state, VE province/territory once; Non-NY: Each NY county once
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 2 November 2019
E-mail logs to: logs@nyqp.org
Web-to-Cabrillo form: www.b4h.net/cabforms/nyqp_cab.php
Mail logs to: (none)
Find rules at: www.nyqp.org/

Worked All Germany Contest
15:00 UTC 19 October to 14:59 UTC 20 October
Geographic Focus: Germany
Participation: Worldwide
Mode: CW, SSB
Bands: (Please observe contest free band segments per the rules), 80, 40, 20, 15, 10 m
Classes: Single Op CW - low or high; Single Op SSB - low or high; Single Op Mixed - QRP, low or high; Multi-Op; SWL
Max power: HP: >100 W; LP: 100 W; QRP: 5 W
Exchange: DL - DARC-Member: RS(T) and DOK (local area code); DL - non-DARC: RS(T) and "NM"; non-DL: RS(T) and serial no
Work stations: Once per band per mode
QSO Points: DL Station: 1 point per DL QSO, 3 points per EU QSO, 5 points per DX QSO; non-DL Station: 3 points per DL QSO
Multipliers: DL Station: Each DXCC entity once per band; non-DL Station: Each DL district once per band
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 28 October 2019
E-mail logs to: (none)
Upload log at: www.dxhf.darc.de/~waglog/upload.cgi?form=referat&lang=en
Mail logs to: (none)
Find rules at: www.darc.de/der-club/referate/conteste/worked-all-germany-contest/en/rules/

Stew Perry Topband Challenge
15:00 UTC 19 October to 15:00 UTC 20 October
Geographic Focus: Worldwide
Participation: Worldwide
Awards: Worldwide
Mode: CW
Bands: 160 m Only
Classes: Single Op - QRP, low or high; Multi-Op - QRP, low or high
Max operating hours: 14 hours
Max power: HP: >100 watts; LP: 5 - 100 watts; QRP: <5 watts
Exchange: 4-Character grid square

QSO Points: 1 point per QSO plus 1 point per 500 km; multiply QSO points by 2 if low power station; multiply QSO points by 4 if QRP station
Multipliers: (none)
Score Calculation: Total score = total QSO points x power multiplier
Submit logs by: 3 November 2019
E-mail logs to: tbdc@kkn.net
Upload log at: www.b4h.net/stew/tbdcsubmitlog.php
Mail logs to: BARC, 15125 SE Bartell Rd, Boring, OR 97009, USA
Find rules at: www.kkn.net/stew/

Feld Hell Sprint
20:00 - 23:59 UTC 19 October
Geographic Focus: Worldwide
Participation: Worldwide
Mode: Feld Hell
Bands: 160, 80, 40, 15, 10, 6 m
Classes: (none)
Max power: Standard: 100 watts; QRP: 5 watts
Exchange: (see rules)
Work stations: Once per band
QSO Points: (see rules)
Bonus Points: (see rules)
Multipliers: (see rules)
Score Calculation: (see rules)
Submit logs by: 23 October 2019
Upload log at: <https://sites.google.com/site/feldhellclub/>
Mail logs to: (none)
Find rules at: <https://sites.google.com/site/feldhellclub/Home/contests/sprints/spooky-sprint>

Argentina National 7 MHz Contest
2130Z-2230Z 19 October
Geographic Focus: Argentina
Participation: South America
Mode: SSB
Bands: 40 m Only
Classes: Single Op
Radio Club
Max power: 100 watts
Exchange: RS and 2-digit year first licensed
QSO Points: 1 point per QSO
Multipliers: Each unique first year licensed once
Score Calculation: Total score = total QSO points x total mults

Submit logs by: November 19, 2019
E-mail logs to: (none)
Upload log at: <https://www.lu4aa.org/wp/concursos/envio-de-logs/>
Mail logs to: (none)
Find rules at: <https://www.lu4aa.org/wp/concurso-nacional-40m/>

Asia-Pacific Fall CW Sprint
00:00 - 02:00 UTC 20 October
Geographic Focus: Asia/Pacific
Participation: Worldwide
Mode: CW
Bands: 20, 15 m
Classes: Single Op
Max power: AP: 150 W; non-AP: legal limit
Exchange: RST and serial no
Work stations: Once per band
QSO Points: 1 point per QSO
Multipliers: Each prefix once
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 27 October 2019
E-mail logs to: apsprint@jsfc.org
Mail logs to: (none)
Find rules at: <http://jsfc.org/apsprint/aprule.txt>

Illinois QSO Party
17:00 UTC 20 October to 01:00 UTC 21 October
Geographic Focus: United States/Canada
state/province QSO party
Participation: Worldwide
Mode: CW/digital, Phone
Bands: 160, 80, 40, 20, 15, 10, 6, 2 m
Classes: Fixed - low or high; Mobile; Portable; Rover; Non-IL - low or high
Max power: HP: >200 watts; LP: 200 watts
Exchange: IL: RS(T) and County; non-IL: RS(T) and state, province or country
Work stations: Once per band per mode per county
QSO Points: 1 point per phone QSO; 2 points per CW/digital QSO
Multipliers: IL Stations: Each IL county, state, VE province once; IL Stations: Each DXCC country (max of 5) once; non-IL Stations: Each IL county once

Score Calculation: Total score = total QSO points x total mults
Submit logs by: 21 November 2019
E-mail logs to: n9if@arrrl.net
Mail logs to: WIARC, PO Box 3132, Quincy IL 62305-3132, USA
Find rules at: www.w9awe.org/ILQP%202019%20Rules.pdf

RSGB RoLo CW,
19:00 - 20:30 UTC 20 October
Participation: Worldwide
Awards: Worldwide
Mode: CW
Bands: 80 m Only
Classes: (none)
Max power: 100 watts
Exchange: RST and previous 6-character grid square received
QSO Points: 10 points per QSO with UK station
Multipliers: (none)
Score Calculation: Total score = total QSO points
Submit logs by: 23:59 UTC 21 October 2019
Upload log at: <http://www.rsgbcc.org/cgi-bin/hfenter.pl>
Mail logs to: (none)
Find rules at: <https://www.rsgbcc.org/hf/rules/2019/rolo.shtml>

Run for the Bacon QRP Contest
01:00 - 03:00 UTC 21 October
Geographic Focus: Worldwide
Participation: Worldwide
Mode: CW
Bands: 160, 80, 40, 20, 15, 10 m
Classes: Single Band; All Band
Max power: 5 watts
Exchange: RST, state, province or country and member no or power
Work stations: Once per band
QSO Points: 1 point per QSO with non-member; 3 points per QSO with member on same continent; 5 points per QSO with member on different continent
Multipliers: Each state, province, or country once; Multiply mults by 2 if >50 members worked
Score Calculation: Total score = total QSO points x total mults

Submit logs by: 27 October 2019
E-mail logs to: (none)
Upload log at: <http://qrptest.com/pigrun/autolog.php>
Mail logs to: (none)
Find rules at: <http://qrptest.com/pigrun/>

ARRL School Club Roundup
13:00 UTC 21 October to 23:59 UTC 25 October
Geographic Focus: Worldwide
Participation: Worldwide
Mode: CW, Phone, RTTY/Digital
Bands: All, except 60, 30, 17, 12 m
Classes: Single Op (I); Non-School Club (C); School Club/Group (S)
Max operating hours: 24 hours total; 6 hours out of any 24-hour period with off times of at least 30 minutes
Exchange: RS(T), Class (I/C/S) and state, province or country
Work stations: Once per mode
QSO Points: 1 point per phone QSO; 2 points per CW/RTTY/digital QSO
Multipliers: States and VE provinces and DXCC countries and (2x class C QSOs) and (5x class S QSOs)
Score Calculation: Total score = total QSO points x total mults
Submit logs by: 9 November 2019
Post log summary at: <http://contests.arrrl.org/arrrlscrcscoresubmission.php>
Mail logs to: School Club Roundup, c/o LIMARC, PO Box 392, Levittown, NY 11756, USA
Find rules at: <http://www.arrrl.org/school-club-roundup>

Telephone Pioneers QSO Party
18:00 - 19:00 UTC 21 October (Digital Only) and 19:00 UTC 21 October to 03:00 UTC 22 October (All Modes)
Mode: CW/Digital, Phone
Bands: 160, 80, 40, 20, 15, 10, VHF/UHF
Classes: (none)
Exchange: Members: RS(T), chapter no and name; non-Members: RS(T) and name
Work stations: Once per band per mode
QSO Points: 1 point per QSO
Bonus Points: (see rules)

Multipliers: Chapter numbers once per mode
 Score Calculation: Total score = (CW/Dig QSO points x CW/Dig mults) and (Ph QSO points x Ph mults) and bonus points
 Submit logs by: 10 December 2019
 E-mail logs to: n6tpjim@gmail.com

Mail logs to: Jim Muter, 4233 Wooster Ave.,
 San Mateo, CA, 94403 USA
 Find rules at: <http://www.tpqso.com/wp-content/uploads/2019/07/TPQSO-Announcement-2019.pdf>

Next Week's Contests

ARRL School Club Roundup, 13:00 UTC 21 October to 23:59 UTC 25 October
 SKCC Sprint, 00:00 - 02:00 UTC 23 October
 Phone Fray, 02:30 - 03:00 UTC 23 October
 CWops Mini-CWT Test, 13:00 - 14:00 UTC and 19:00 - 20:00 UTC 23 October and 03:00 - 04:00 UTC 24 October
 RSGB 80 m Autumn Series, Data, 19:00 - 20:30 UTC 23 October
 NCCC RTTY Sprint, 01:45 - 02:15 UTC 25 October
 NCCC Sprint, 02:30 - 03:00 UTC 25 October
 CQ Worldwide DX SSB Contest, 00:00 UTC 26 October to 23:59 UTC 27 October
 QCX Challenge, 13:00 - 14:00 UTC and 19:00 - 20:00 UTC 28 October and 03:00 - 04:00 UTC 29 October

The Final Results of the 2019 SARL National Field Day

The results as provided by Geoff, ZS6C.

Station	Feb 2019	Class	Sep 2019	Class	Total
The West Rand ARC, ZS6WR	104 928	A	149 400	A	254 328
The Highway ARC, ZS5HAM	87 240	A	53 028	A	140 268
Johan van Zijl, ZS4DZ	18 396	D	51 480	D	69 876
The Suid-Kaap ARC, ZS1SKR			69 012	C	69 012
The Sandton ARC, ZS6STN	31 320	A	24 840	A	56 160
The Pretoria ARC, ZS6PTA	22 560	A	19 680	A	42 240
The Bo-Karoo ARC, ZS3VDK			27 756	A	27 756
Bruce Dunn, ZS5XT	Check log	F	21 762	F	21 762
The Sandringham Scout Group, ZS6SSG	13 122	A			13 122
Brad Mostert, ZS6WWW			12 096	A	12 096
The Bo-Karoo ARC, ZS3VDK	9 540	F			9 540
The Hibiscus Coast ARC, ZS5HAC		A	8160	A	8 160
Theunis Potgieter, ZS2EC	7 854	E			7 854
Dave Higgs, ZS2DH	7 056	C			7 056
Woody Collett, ZS3WL	5 648	F			5 648
PEARS, ZS2PE			1 510	F	1 510
The Secunda ARC, ZS6SRC	1 350	A			1 350
Dennis Green, ZS4BS			1 080	D	1 080
Anthony Rouquette, ZS6ANT	944	F			944
Sidney Freeman, ZS5SID	36	F			36
Lucas Swart, ZS6ACT			30	A	30

Items used with acknowledgement to the ARRL Letter, the ARRL DX News, the ARRL Contest Update, OPDX Bulletin, 425 DX Bulletin, DXNL Newsletter, WIA-News, the RSGB News, DxCoffee, Southgate ARC News, DX World and the Amateur Radio Newsletter